CERTIFICATIONS
ISO 9001
Quality Management System
ISO 14001
Environmental Management System
OHSAS 18001
Workplace Safety & Health

ACCESSORIES
RVS
(remote venting system) for IP rated applications which require remote gassing (except for 12FLB150P - 200P)
Rack for battery installation
(standard and seismic)
Cabinets for battery installation
(including electrical protections and disconnection)
Battery monitoring systems

DISCHARGE CURVES
at different current / final voltage (at 25°C)

The above discharge curves are typical. For more detailed information please see the specific product sheets.

TYPICAL CHARGE CURVES
Battery Voltage and Charge Time for Standby Use (at 25°C)

STORAGE
Capacity loss during storage at various temperatures

The battery can be used without refreshing charge.

Refreshing charge at 2.4 Vpc for 24 hours (at 20-25°C) must be applied as soon as possible.

Refreshing charge of 2.4 Vpc may be insufficient to recover the battery capacity. It is important to avoid this area.

Storage Time (months)
Remaining Capacity (%)
FIAMM FLB RANGE OF VALVE REGULATED BATTERIES HAS BEEN DESIGNED TO DELIVER THE HIGHEST PERFORMANCES Whilst Combining EXCELLENT RELIABILITY AND FLOAT-LIFE.

FLB HIGH ENERGY DENSITY ALLOWS COMPACT BATTERY LAYOUT AND FOOTPRINTS, THUS REDUCING THE INSTALLATION SPACE. FLB BLOCS CAN BE INSTALLED IN CABINETS OR RACKS. FLB USES PROVEN VRLA TECHNOLOGY WITH 99% INTERNAL RECOMBINATION EFFICIENCY, IS NON-SPILLABLE AND MAINTENANCE FREE THEREFORE REQUIRES NO TOPPING UP OF ELECTROLYTE DURING ITS FLOAT-LIFE. FLB RANGE IS NON-HAZARDOUS FOR AIR/SEA/RAIL/ROAD TRANSPORTATION AND IS 100% RECYCLABLE. FLB HAS A SELF-DISCHARGE RATE LESS THAN 2% PER MONTH, GUARANTEEING LONG SHELF-LIFE.

FIAMM FLB RANGE USE AGM (ABSORBED GLASS MAT) TECHNOLOGY. THE ELECTROLYTE IS ABSORBED IN FIBERGLASS SEPARATORS WITH 99% INTERNAL GAS RECOMBINATION EFFICIENCY. BLOCS ARE GRANTS NON-SPILLABLE AND MAINTENANCE FREE THEREFORE REQUIRES NO TOPPING UP OF ELECTROLYTE DURING ITS WHOLE LIFE. LOW SELF-DISCHARGE ALLOWS 6 MONTHS SHELF LIFE.

**TECHNOLOGY**

**ELECTRICAL CHARACTERISTICS**

- **Float Voltage**: 2.26 V/cell at 25°C
- **Boost Voltage**: 2.35 V/cell
- **Float Voltage Compensation with Temperature**: -2.5 mV/cell/°C
- **Self-Discharge at 25°C**: <2%/month

**STANDARDS**

- IEC 60896 Part 21 - VRLA methods of testing
- IEC 60896 Part 22 - VRLA requirements
- BS 6290 Part 4 - specifications for VRLA classification
- Eurobat “10/12 years LONG LIFE”

<table>
<thead>
<tr>
<th>BATTERY TYPE</th>
<th>NOMINAL VOLTAGE (V)</th>
<th>POWER (W)</th>
<th>CAPACITY (Ah)</th>
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<td>20 hrs to 1.75 VPC at 25°C</td>
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<td>6 FLB 800 P</td>
<td>6</td>
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</table>

**SPECIFICATIONS**

- High purity lead calcium tin grid plates, designed to resist corrosion and provide short recharge time
- VRLA AGM technology using low resistance high microporous fiberglass separators
- Leak resistant post seal, threaded female M5/M6/M8 terminals with high conductivity and maximum torque resistance
- One-way safety relief valves allow gas to escape and prevent the ingress of oxygen.
- Flame arrestors prevent sparks or flames entering the battery
- Flame retardant ABS plastic to IEC 707 FV0 and UL94 FV0 (LOI greater than 28%)
- Heat sealed box to lid weld for superior integrity
- Installation in any orientation (excluding permanently inverted)
Fiamm FLB Range of Valve Regulated Batteries has been designed to deliver the highest performances whilst combining excellent reliability and float-life.

FLB high energy density allows compact battery layout and footprints, thus reducing the installation space. FLB blocks can be installed in cabinets or racks. FLB uses proven VRLA technology with 99% internal recombination efficiency, is non-spillable and maintenance free. Therefore requires no topping up of electrolyte during its float-life. FLB range is non-hazardous for air/sea/road/rail transportation and is 100% recyclable. FLB has a self-discharge rate less than 2% per month, guaranteeing long shelf-life.

**Main Applications:**

- UPS & Data Center
- Security System & Emergency Lighting

**Technology**

Fiamm FLB Range use AGM (absorbed glass mat) technology. The electrolyte is absorbed in fiberglass separators with 99% internal gas recombination efficiency. Blocks are grants non-spillable and maintenance free. Therefore requires no topping up of electrolyte during its whole life. Low self-discharge allows 6 months shelf-life.

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**Battery Specifications**

<table>
<thead>
<tr>
<th>Battery Type</th>
<th>Nominal Voltage (V)</th>
<th>Power (W)</th>
<th>Capacity (Ah)</th>
<th>Short Circuit Current (A)</th>
<th>Internal Resistance (mOhm)</th>
<th>Dimensions (mm)</th>
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Fiamm reserves the right to change or revise without notice any information or detail given in this publication.

The image is for illustrative purposes only.
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